

AIR ARMAMENT CENTER

A large, intense explosion is the central focus of the image. It features a massive, bright orange and yellow fireball that rises into the air, surrounded by thick, billowing white and grey smoke. The explosion appears to be taking place at night or in low light, as the background is a dark, deep blue sky. The overall scene conveys a sense of power and military capability.

Executive Overview

Director of Engineering

Air Armament Center Missions



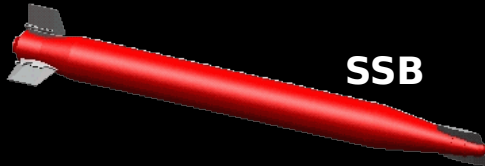
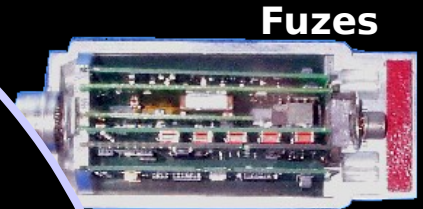
Air Armament Center Missions



GPS/INS



**Research
and
Development**



- Assess Emerging Technologies Through Applied Technology Demonstrations
- Create Partnerships with Industry and Academia

Air Armament Center Missions



Command and Control
McKinley



NRTF



PRIMES



**Test
and
Evaluation
n**



Ranges



Sled Track

- Operates
 - Highly Instrumented Aircraft
 - Ground Facilities at Eglin and Holloman AFB's
- Manages Land and Gulf Test Ranges
- Conducts Test & Evaluation and Training
 - Air-Delivered Armament
 - Command & Control

Air Armament Center Missions

- Designated Acquisition Commander
- Cradle-to-Grave Management Of All Air-Delivered Munitions
- Aerial Targets/Range System Acquisition
- Air Base Systems Acquisition
- Program New Starts
- Program Planning



AIM-120C



GBU-28



**Acquisitio
n**

Air Armament Center Missions



**Modification
and
Sustainment**



- Air Armament Sustainment Strategic Plan
- System Enhancements
- Preposition Assets
- Disposition



Air Armament Center Missions

**Base
Operating
Support**

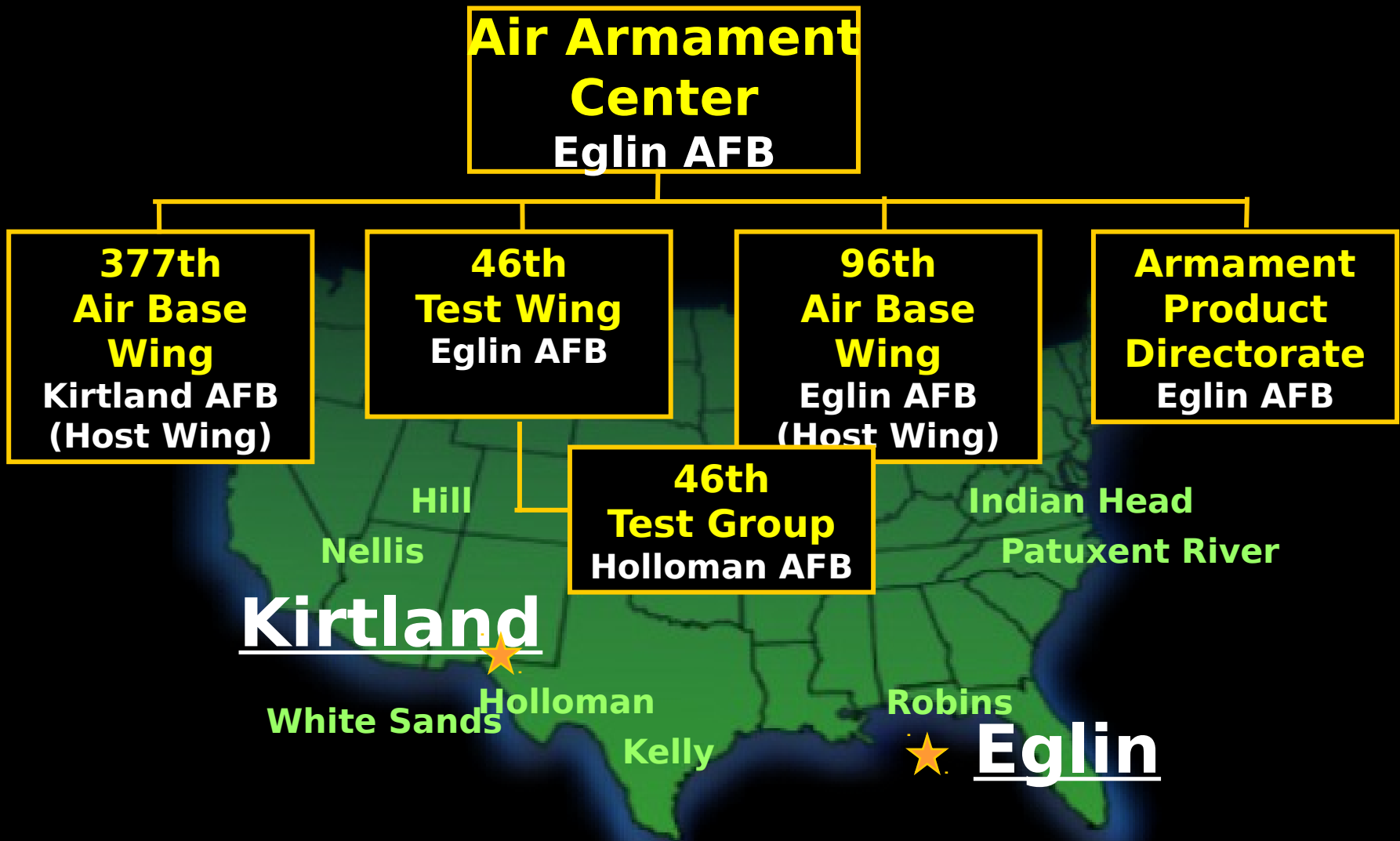
**Eglin Air Force Base
Florida**

**Kirtland Air Force Base
New Mexico**



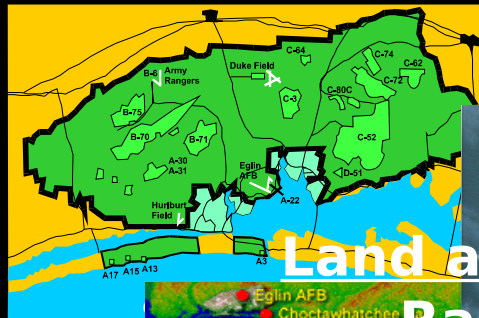
- 2 Major Installations
- Over 35,000 Personnel
- More than 250 Tenant Organizations

Air Armament Team

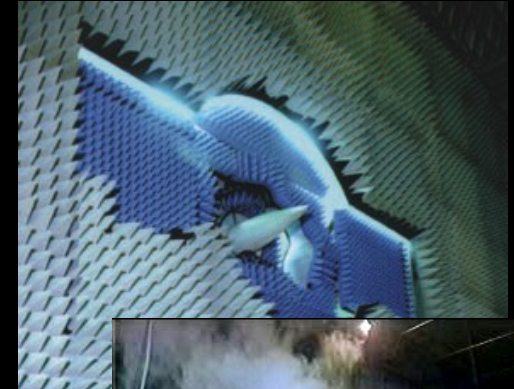


46TH TEST WING

Conducts testing and evaluation of armament, guidance, command and control (C2), and other specialized systems.



Land and Water Ranges



World-Class Facilities

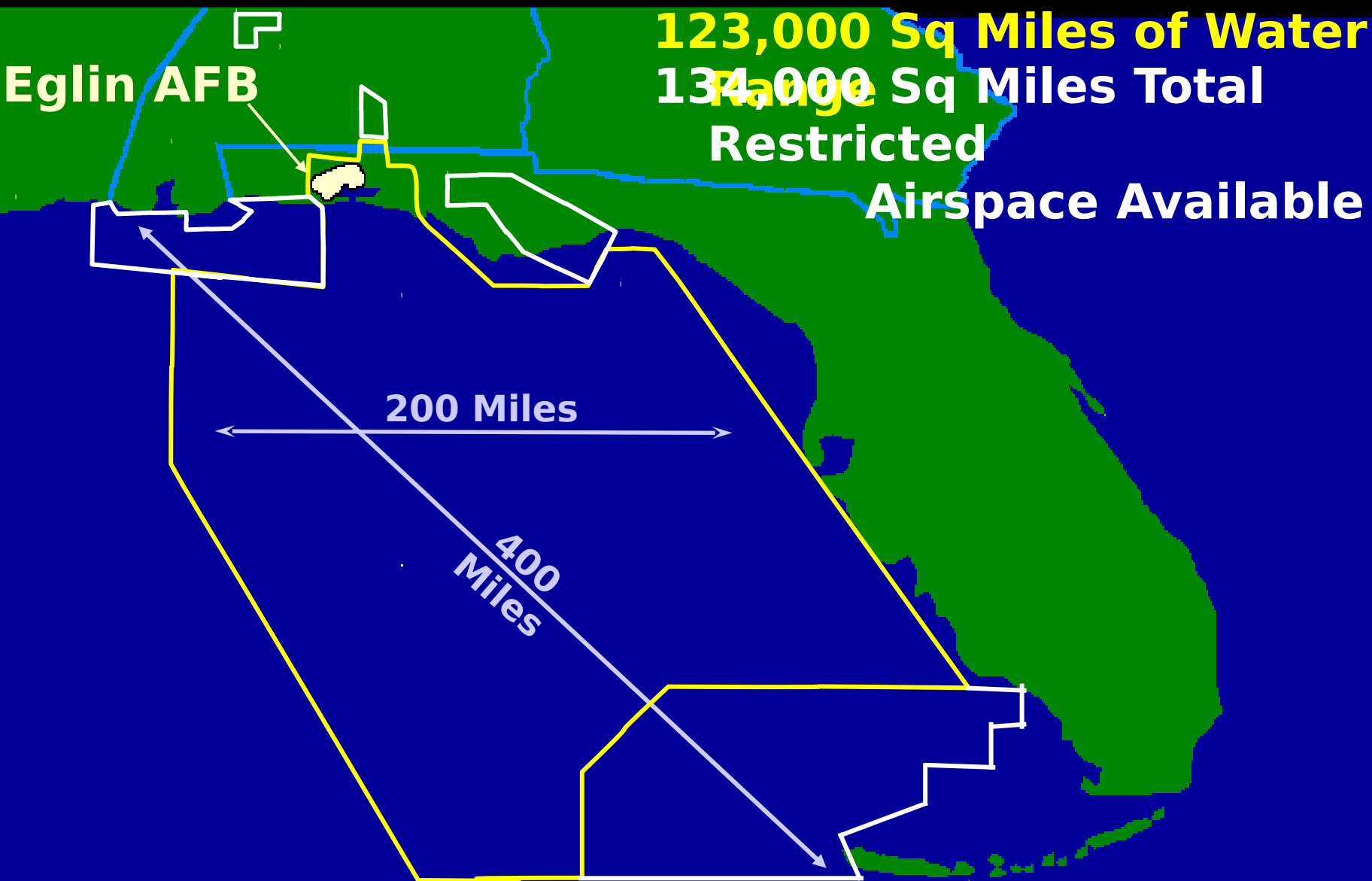


Eglin's Land Ranges

463,448 Acres
724 Square
Miles



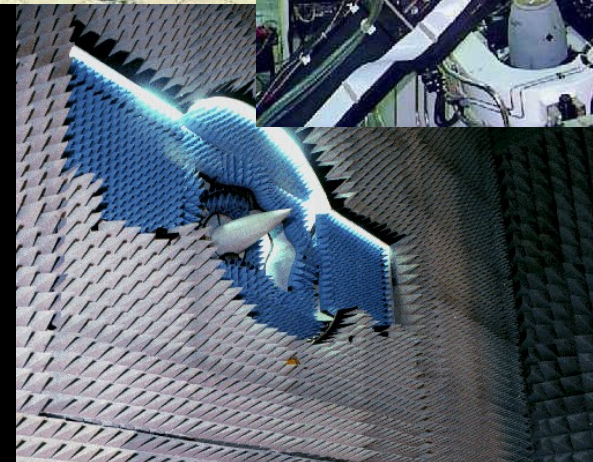
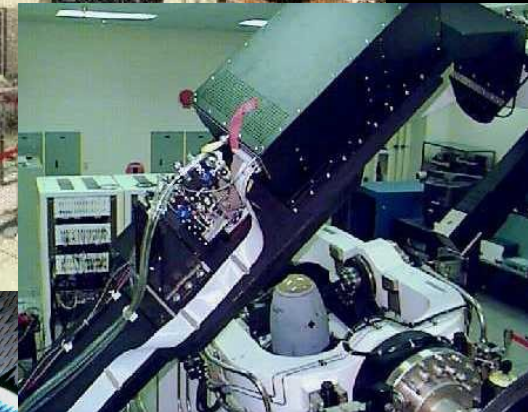
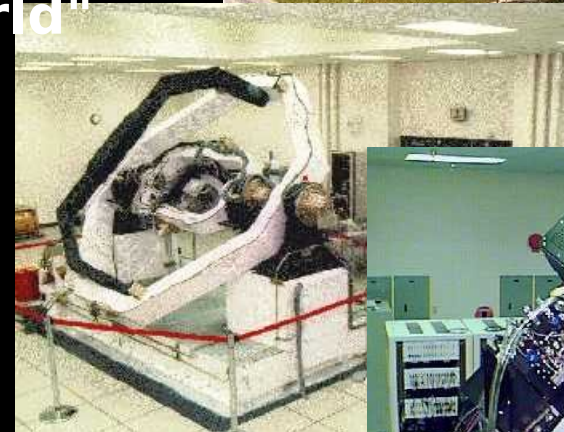
Eglin's Water Ranges



Guided Weapons Evaluation Facility (GWEF)

The GWEF provides multispectral simulation support for developing and evaluating precision-guided weapons in simulated "real world" environments. The GWEF Test Complex includes 6 major test areas

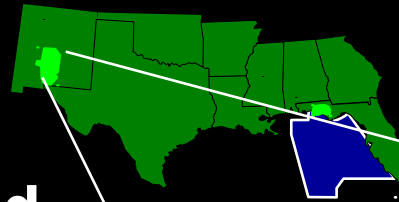
- Visible (Electro-Optical)
- Infrared (IR)
- Laser
- Radio Frequency (RF)
- Millimeter Wave (MMW)
- Midcourse INS/GPS



46TH TEST WING

46th Test Group

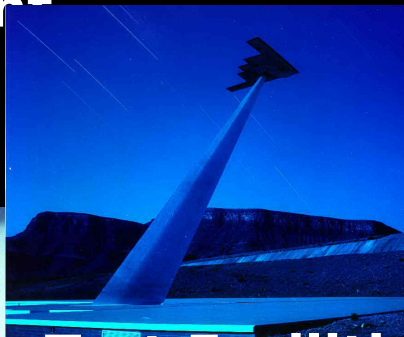
Operates world-class facilities for navigation and guidance system test, radar signature measurement, and the high speed sled track environment



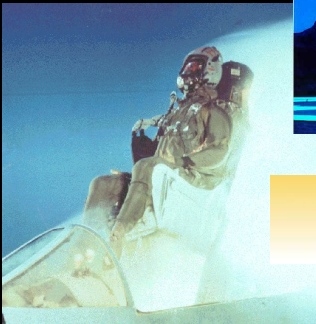
Western Land Range

White Sands
Missile Range
(WSMR)

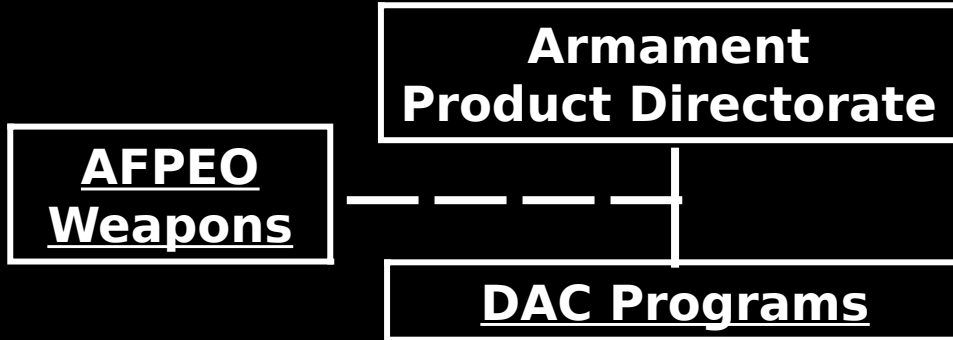
Holloman AFB



Test Facilities



ARMAMENT PRODUCT DIRECTORATE



Sustainment at ALCs

**plans for, develops,
produces, fields, and
sustains *all* air delivered
munitions**



**Transition Emerging
Technologies from
AFRL**



**Acquire Effective & Reliable
Weapons For Our Warfighters**

Air-to-Air Joint Program Office

Advanced Medium Range Air-to-Air Missile (AMRAAM)

**Latest Generation, all-weather, radar
guided Air-to-Air Missile**

- **Beyond visual range kill capability**
- **Autonomous guidance - *Launch & Leave***
- **Engage multiple targets in a single pass**



Air-to-Air Joint Program Office

AIM-9X

**Next generation tactical
short range air-to-air
missile**



- Expands AIM-9M capabilities - range, detection, etc.
- Joint program (Navy lead)



Joint Direct Attack Munition (JDAM)

Low-cost INS/GPS guidance kit that converts existing unguided bombs into accurate “smart” munitions - BLU-109/MK-84 2000 lb warhead; BLU-110/MK-83 1000 lb warhead

- **Autonomous Guidance - *Fire and Forget***
- **Compatible with AF and Navy aircraft**
- **In-flight Captive Carriage retargeting**
- **Single Pass Versatility**
- **All Weather operation**



Area Attack Joint Standoff Weapon (JSOW)

**Family of low-cost, all weather, 1000 lb class
standoff weapons**

- **Common vehicle . . . different payloads**
 - **AGM-154A ... BLU-97 bomblet (CEM)**
 - **AGM-154B ... BLU-108 submunition (S)**
 - **AGM-154C ... BLU-111 unitary warhead**
- **Multiple carriage smart rack for F-16 and F/A-18**

BRU-57 Smart Rack



Joint Air-to-Surface Standoff Missile (JASSM)

Autonomous, precision strike, standoff weapon designed to attack heavily defended, high priority targets

- **Fixed and Relocatable targets: soft, above ground and hardened, shallow buried**
- **Beyond range of enemy air defenses**



Area Attack Sensor Fuzed Weapon

1000 pound class unpowered, wide-area cluster munition

- **Multiple kills per pass against armor and support vehicles**
- **10 BLU-108 Submunitions with four projectiles each**



Area Attack

Wind Corrected Munitions Dispenser (WCMD)

Low cost, smart guidance tail-kit for cluster weapons - CEM, GATOR, SFW

- **Compensates for winds aloft, surface winds and adverse weather**
- **Deployed from medium to high altitudes**
- **Accuracy of < 85 feet from altitudes up to 45,000 feet**



Precision Strike Systems

AGM-130

Retargetable, precision-guided standoff weapon designed to attack high value, fixed, relocatable or slow-moving targets

- **Horizontal or Vertical targets (BLU-109/MK-84 warheads)**
- **INS/GPS Navigation**
- **TV or Imaging Infrared Seeker**
- **Outside Point Defenses**
- **Inflight missile retargeting**



Precision Strike Systems

Fuzes

Joint Programmable Fuze

- Multi-function fuze for JDAM
- Instantaneous and multiple delays
- Cockpit Programmable



Hard Target Smart Fuze

- Optimize weapon's burst point
- Accelerometer Based
- Preprogrammed with Ground Unit



Hard Target Smart Fuze

Lethal Suppression of Enemy Air Defenses

AGM-88 B&C

High-Speed Anti-Radiation Missile (HARM)

- Tactical radar homing missile
- Destroy or suppress surface-to-air radar threats
- Compatible with F-16 C/D



Lethal Suppression of Enemy Air Defenses

ADM-160A

Miniature Air Launched Decoy (MALD)



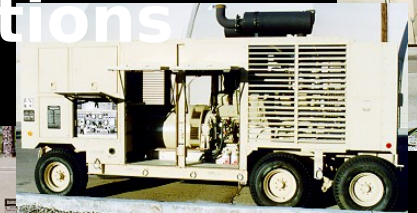
- Small, low-cost, expendable decoy
- Threat stimulation, deception and saturation
- Range > 250 miles
- Altitude > 30,000 feet



Air Base Systems

Expeditionary support equipment enabling
USAF wartime air base operations and
facilitating support of military operations
other than war

- Facilities, Utilities, Airfield and Firefighting
- Capitalize on commercial technology
- Lower cost, lighter, easier to deploy



Nuclear Weapons Product Support Center

The Nuclear Weapons Product Support Center at Kirtland AFB maintains, modifies, and retires non-conventional warheads and associated weapons systems. The Nuclear Weapons Division is responsible for supporting nuclear weapons and warheads





AAC
TOTAL ARMAMENT RESPONSIBILITY
and BASE SUPPORT

MUNITIONS DIRECTORATE
S&T

AFOTEC, 53 WING, & UAV
BATTLELAB

**RDT&E
OPERATIONS**



ARMY RANGERS



COAST GUARD



NAVY EOD



AFSOC/16th SOW/919th SOW
SPECIAL OPERATIONS

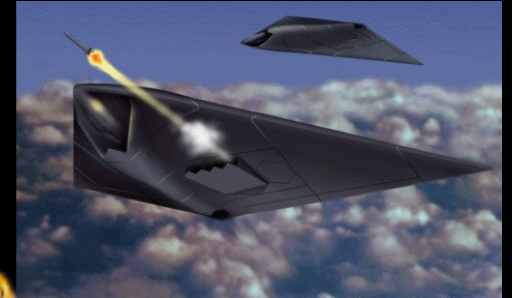


33FW



Summary

PROUD
PAST



BRIGHT
FUTURE



End of slide show, click to exit